

We Claim:

1. A method for exchanging geographical location information between a core network element in a public telecommunication network and a location information server unit utilizing at least one message of a protocol supported by core networks of the telecommunication network, which comprises:

selecting, with the server unit, a message type for the message used for the exchange of location information; and

before accessing a core network element for exchange of the location information, implementing a series of access attempts with messages of different message types with the server unit until one access attempt has resulted in a successful exchange of information.

2. The method according to claim 1, wherein the public telecommunication network is a mobile radio network.

3. The method according to claim 1, which further comprises:

storing decision information with the server unit;

assigning, in the server unit, at least one message type to at least one core network element for implementing the exchange of the location information; and

when an access attempt has resulted in a successful data exchange, adding, with the server unit, one entry to the decision information if the entry does not already exist, in which information every message type, with which access was successful, is assigned to the core network element.

4. The method according to claim 3, which further comprises, before the core network element is accessed for the exchange of location information, checking, with the server unit, the decision information for an entry for the relevant core network element and:

if an entry for the relevant core network element exists, implementing the location information exchange based upon the message type according to the entry; and

implementing a series of access attempts with messages of different message types until one access attempt has resulted in a successful data exchange and the decision information is added on the part of the server unit if such an entry does not already exist.

5. The method according to claim 1, which further comprises implementing an access attempt with messages according to the valid LCS standards and, if not successful, implementing at

least one access attempt according to methods valid for the LCS standards.

6. The method according to claim 1, which further comprises implementing an access attempt with messages according to the valid LCS standards and, if not successful, implementing at least one access attempt by MAP-ATI requests.

7. The method according to claim 5, which further comprises sending a short message to a mobile terminal in the network, the geographical location of which is to be determined, and activating a paging operation for the mobile terminal as a result of the short message sent.

8. The method according to claim 6, which further comprises sending a short message to a mobile terminal in the network, the geographical location of which is to be determined, and activating a paging operation for the mobile terminal as a result of the short message sent.

9. The method according to claim 1, which further comprises, if no entry has been found for a specific core network element, implementing an application context negotiation with the element and determining a message type based upon the application context negotiation.

10. The method according to claim 4, which further comprises, if no entry has been found for a specific core network element, implementing an application context negotiation with the element and determining a message type based upon the application context negotiation.

11. The method according to claim 3, which further comprises storing the decision information in the form of a decision table in which entries are ordered based upon the core network elements.

12. A method for exchanging geographical location information between a core network element in a public telecommunication mobile radio network and a location information server unit utilizing at least one message of a protocol supported by core networks of the telecommunication network, which comprises:

selecting, with the server unit, a message type for the message used for the exchange of location information;

before accessing a core network element for exchange of the location information, implementing a series of access attempts with messages of different message types with the server unit until one access attempt has resulted in a successful exchange of information;

storing decision information with the server unit;

assigning, in the server unit, at least one message type to at least one core network element for implementing the exchange of the location information;

when an access attempt has resulted in a successful data exchange, adding, with the server unit, one entry to the decision information if the entry does not already exist, in which information every message type, with which access was successful, is assigned to the core network element;

before the core network element is accessed for the exchange of location information, checking, with the server unit, the decision information for an entry for the relevant core network element and:

if an entry for the relevant core network element exists, implementing the location information exchange based upon the message type according to the entry; and

implementing a series of access attempts with messages of different message types until one access attempt has resulted in a successful data exchange and the decision information is added on the part of the server unit if such an entry does not already exist;

implementing an access attempt with messages according to the valid LCS standards and, if not successful, implementing at least one access attempt according to methods valid for the LCS standards;

sending a message to a mobile terminal in the network, the geographical location of which is to be determined, and activating a paging operation for the mobile terminal as a result of the short message sent;

if no entry has been found for a specific core network element, implementing an application context negotiation with the element and determining a message type based upon the application context negotiation; and

storing the decision information in the form of a decision table in which entries are ordered based upon the core network elements.

13. A method for exchanging geographical location information, which comprises:

providing a core network element in a public telecommunication network having core networks;

providing a location information server unit; and

exchanging geographical location information between the core network element and the location information server unit utilizing at least one message of a protocol supported by the core networks by:

selecting, with the server unit, a message type for the message used for the exchange of the location information; and

before accessing a core network element for exchange of the location information, implementing a series of access attempts with messages of different message types with the server unit until one access attempt has resulted in a successful exchange of information.

14. In a public telecommunication network having core networks and a core network element, a method for exchanging geographical location information between the core network element and a location information server unit utilizing at least one message of a protocol supported by the core networks, which comprises:

selecting, with the server unit, a message type for the message used for the exchange of location information; and

before accessing a core network element for exchange of the location information, implementing a series of access attempts with messages of different message types with the server unit until one access attempt has resulted in a successful exchange of information.

15. In a public telecommunication network having core networks, a core network element, and a location information server unit utilizing at least one message of a protocol supported by the core networks, comprising:

a location information server unit for exchanging geographical location information between the core network element in the network and the location information server unit, said server unit being programmed to select a message type for the message used for the exchange of location information and being programmed to implement, before accessing the core network element for exchange of the location information, a series of access attempts with messages of different message types with said server unit until one access attempt has resulted in a successful exchange of information.

16. In a public telecommunication network having core networks, a core network element, and a location information



server unit utilizing at least one message of a protocol supported by the core networks, comprising:

a location information server unit for exchanging geographical location information between the core network element in the network and the location information server unit, said server unit being adapted to select a message type for the message used for the exchange of location information and to implement, before accessing the core network element for exchange of the location information, a series of access attempts with messages of different message types with said server unit until one access attempt has resulted in a successful exchange of information.